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**From:** Hill, Donna [Hill.Donna@epa.gov]  
**Sent:** 12/9/2020 2:14:33 PM  
**To:** Bangma, Jacqueline [Bangma.Jacqueline@epa.gov]; Strynar, Mark [Strynar.Mark@epa.gov]; Chernoff, Neil [Chernoff.Neil@epa.gov]  
**Subject:** RE: EPA study that need hands

Great- I'll work on getting us a time!

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**From:** Bangma, Jacqueline <Bangma.Jacqueline@epa.gov>  
**Sent:** Wednesday, December 09, 2020 8:19 AM  
**To:** Strynar, Mark <Strynar.Mark@epa.gov>; Hill, Donna <Hill.Donna@epa.gov>; Chernoff, Neil <Chernoff.Neil@epa.gov>  
**Subject:** RE: EPA study that need hands

I am also open during those times 😊

-Jackie

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**From:** Strynar, Mark <Strynar.Mark@epa.gov>  
**Sent:** Wednesday, December 9, 2020 8:00 AM  
**To:** Hill, Donna <Hill.Donna@epa.gov>; Bangma, Jacqueline <Bangma.Jacqueline@epa.gov>; Chernoff, Neil <Chernoff.Neil@epa.gov>  
**Subject:** RE: EPA study that need hands

Next week my M, W and Th are wide open right now. On T I have meetings 10-12 noon and 2-4. Other wise open.

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**From:** Hill, Donna <Hill.Donna@epa.gov>  
**Sent:** Tuesday, December 08, 2020 2:25 PM  
**To:** Bangma, Jacqueline <Bangma.Jacqueline@epa.gov>; Chernoff, Neil <Chernoff.Neil@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>  
**Subject:** RE: EPA study that need hands

Hi Jackie- I think that would be great. Thanks for offering to help. Neil and I will be speaking with Johnsie this Thursday and I'll ask for a time that Johnsie is available so we can talk, maybe next week? Do you and Mark have some days/times we need to avoid if we plan on next week?

Thanks,  
Donna

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**From:** Bangma, Jacqueline <Bangma.Jacqueline@epa.gov>  
**Sent:** Tuesday, December 08, 2020 1:56 PM  
**To:** Chernoff, Neil <Chernoff.Neil@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>  
**Cc:** Hill, Donna <Hill.Donna@epa.gov>  
**Subject:** RE: EPA study that need hands

Neil and Donna,

Sounds like a really interesting study that would really benefit the larger scientific community. Would you like to set up a conference call to chat about what specific items are left to complete the project and if I might be able to help?

-Jackie

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**From:** Chernoff, Neil <[Chernoff.Neil@epa.gov](mailto:Chernoff.Neil@epa.gov)>  
**Sent:** Thursday, December 3, 2020 4:44 PM  
**To:** Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Cc:** Hill, Donna <[Hill.Donna@epa.gov](mailto:Hill.Donna@epa.gov)>; Bangma, Jacqueline <[Bangma.Jacqueline@epa.gov](mailto:Bangma.Jacqueline@epa.gov)>  
**Subject:** RE: EPA study that need hands

Hi Mark,

You're correct – the study I mentioned was the “ditch study” – the analysis of the water that we obtained on our field trip to the wilds of Chemours country. Chris Lau surprised me when he contacted me about the work – he felt that it was more important than the paper of NPB-2, because the initial study would possibly give direction for future toxicological research. The study had two parts – an analysis of the water as collected and an analysis of the PFASs in livers of animals dosed with the water. The first segment gave information on the PFASs present in raw water, and the second identified those that were present in the liver after animals were exposed to five consecutive single daily doses. The list of compounds were not equivalent across studies in either compound identity (some PFASs (e.g. PFMOAA) in the raw water did not appear in the liver) or concentrations – e.g., NBP2 was present in the raw water in very small amounts, but after their exposures, the livers contained in the order of 70% of the total administered(!), indicating a high degree of bioaccumulation.. The compounds were also identified in the blood obtained from people living in the Wilmington area – not a surprise given our data.

Both my lab and Chris felt that if one had to target specific PFASs to initiate toxicological studies on, the most toxicologically defensible place to begin would be those compounds found in the blood of people, which is why we were glad to initiate the study on the NBP2 that you supplied us. Chris' point about the importance of this unpublished work is that it could be used by scientists attempting to choose PFASs for study – and given the paucity of toxicologists doing this type of basic work, the rationale for compound selection is a critical step.

The above is straight from memory and may not be completely accurate – I just attempted to contact Johnsie without success and Donna is at Ex. 6 Personal Privacy (PP) and also isn't available. I agree with Chris about the importance of the work, but given the reduction in our lab size and analytical expertise coupled with the need for the cyanotoxin research that we've been doing, we never completed the work on this part of the PFAS effort. We would be more than willing to do whatever is needed to get this project finished and published.

Cheers,

Neil

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**From:** Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Sent:** Thursday, December 3, 2020 3:14 PM  
**To:** Bangma, Jacqueline <[Bangma.Jacqueline@epa.gov](mailto:Bangma.Jacqueline@epa.gov)>  
**Cc:** Chernoff, Neil <[Chernoff.Neil@epa.gov](mailto:Chernoff.Neil@epa.gov)>; Hill, Donna <[Hill.Donna@epa.gov](mailto:Hill.Donna@epa.gov)>  
**Subject:** RE: EPA study that need hands

Jackie,

It was for the work of Johnsie Lang. I recall it was for dosed rodents with the concentrated water from the Chemours outfall. The work was with Neil Chernoff and Donna Hill.

I am cc'ing them on this so we can get reconnected on this project. Neil and Donna am I recalling this need correctly. It was the one Chris Lau said was very important to finish. Jackie is my post-doc.

Mark

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**From:** Bangma, Jacqueline <[Bangma.Jacqueline@epa.gov](mailto:Bangma.Jacqueline@epa.gov)>

**Sent:** Thursday, December 03, 2020 2:59 PM

**To:** Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>

**Subject:** EPA study that need hands

Hi Mark,

I keep meaning to ask about the EPA study you mentioned a month or two ago. At the time you said they needed a postdoc to run targeted analysis as the postdoc lined up to do the work left the agency. I am willing to offer my time if it is something people are still interested in.

-Jackie